	CRF Errors Corrected by the STIC	Systems anch 2/10/
lai i	Number: 10/044,674	CRF Processing Dat : 2/19/2 Edited by:
	Changed a file from non-ASCII to ASCII	Verified by:(STIC
	Changed the margins in cases where the sequence text was	arged" down to the next line.
	Edited a format error in the Current Application Data section, s	specifically:
	Edited the Current Application Data section with the actual curapplicant was the prior application data; or other	rent number. The number inputted by the
	Added the mandatory heading and subheadings for "Current A	pplication Data".
	Edited the "Number of Sequences" field. The applicant spelled	d out a number instead of using an integer.
	Changed the spelling of a mandatory field (the headings or sub	pheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence	ence numbers that were edited were:
	Inserted or corrected a nucleic number at the end of a nucleic li	ine. SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the applicant placed a response below the subheading, this was more	e same line as each subheading. If the oved to its appropnate place.
	Inserted colons after headings/subheadings. Headings edited	included:
	Deleted extra, invalid, headings used by an applicant, specifical	lly:
	Deleted: non-ASCII "garbage" at the beginning/end of files; page numbers throughout text; other invalid text, such	secretary initials/filename at end of f
	Inserted mandatory headings, specifically:	
	Corrected an obvious error in the response, specifically:	
•	Edited identifiers where upper case is used but lower case is re	quired, or vice versa.
_	Corrected an error in the Number of Sequences field, specifical	ly:
	A "Hard Page Break" code was inserted by the applicant. All oc	ocurrences had to be deleted.
d	Deleted ending stop codon in amino acid sequences and adjust lue to a Patentin bug). Sequences corrected:	ed the "(A)Length:" field accordingly (error
	Other:	
-	•	
-	•	



DATE: 02/19/2002

OIPE

TIME: 17:10:28 PATENT APPLICATION: US/10/044,674 Input Set : A:\PTO.AMC.txt Output Set: N:\CRF3\02192002\J044674.raw 3 <110> APPLICANT: Chew, Anne Denton, R. Rex Bieglecki, Karyn M 'Nandabalan, Krishnan Stephens, J. Claiborne 9 <120> TITLE OF INVENTION: HAPLOTYPES OF THE TNFRSF11B GENE 11 <130> FILE REFERENCE: TNFRSF11B\_MWH-0001US (CIP) C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/044,674 14 <141> CURRENT FILING DATE: 2002-01-09 16 <150> PRIOR APPLICATION NUMBER: PCT/US00/18803 17 <151> PRIOR FILING DATE: 2000-07-10 19 <160> NUMBER OF SEQ ID NOS: 94 21 <170> SOFTWARE: PatentIn version 3.1 23 <210> SEQ ID NO: 1 24 <211> LENGTH: 11408 25 <212> TYPE: DNA 26 <213> ORGANISM: Homo sapiens 28 <220> FEATURE: 29 <221> NAME/KEY: allele 30 <222> LOCATION: (504)..(504) 31 <223> OTHER INFORMATION: PS1: polymorphic base  ${\tt G}$  or  ${\tt T}$ 33 <220> FEATURE: 34 <221> NAME/KEY: allele 35 <222> LOCATION: (717)..(717) 36 <223> OTHER INFORMATION: PS2: polymorphic base C or T 38 <220> FEATURE: 39 <221> NAME/KEY: allele 40 <222> LOCATION: (744)..(744) 41 <223> OTHER INFORMATION: PS3: polymorphic base G or T 43 <220> FEATURE: 44 <221> NAME/KEY: allele 45 <222> LOCATION: (778)..(778) 46 <223> OTHER INFORMATION: PS4: polymorphic base T or C 48 <220> FEATURE: 49 <221> NAME/KEY: allele 50 <222> LOCATION: (1009)..(1009) 51 <223> OTHER INFORMATION: PS5: polymorphic base G or C 53 <220> FEATURE: 54 <221> NAME/KEY: allele 55 <222> LOCATION: (1045)..(1045) 56 <223> OTHER INFORMATION: PS6: polymorphic base C or T 58 <220> FEATURE: 59 <221> NAME/KEY: allele

RAW SEQUENCE LISTING

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02192002\J044674.raw<

60 <222> LOCATION: (1122)..(1122) 61 <223> OTHER INFORMATION: PS7: polymorphic base G or A 63 <220> FEATURE: 64 <221> NAME/KEY: allele 65 <222> LOCATION: (1218)..(1218) 66 <223> OTHER INFORMATION: PS8: polymorphic base C or A 68 <220> FEATURE: 69 <221> NAME/KEY: misc\_feature 70 <222> LOCATION: (1501)..(1550) 71 <223> OTHER INFORMATION: Sequence undetermined between contigs 74 <220> FEATURE: 75 <221> NAME/KEY: allele 76 <222> LOCATION: (2014)..(2014) 77 <223> OTHER INFORMATION: PS9: polymorphic base C or T 79 <220> FEATURE: 80 <221> NAME/KEY: allele 81 <222> LOCATION: (2177)..(2177) 82 <223> OTHER INFORMATION: PS10: polymorphic base T or C 84 <220> FEATURE: 85 <221> NAME/KEY: allele 86 <222> LOCATION: (5906)..(5906) 87 <223> OTHER INFORMATION: PS11: polymorphic base T or C 89 <220> FEATURE: 90 <221> NAME/KEY: allele 91 <222> LOCATION: (6010)..(6010) 92 <223> OTHER INFORMATION: PS12: polymorphic base C or T 94 <220> FEATURE: 95 <221> NAME/KEY: allele 96 <222> LOCATION: (8110)..(8110) 97 <223> OTHER INFORMATION: PS13: polymorphic base G or A 99 <220> FEATURE: 100 <221> NAME/KEY: allele 101 <222> LOCATION: (8333)..(8333) 102 <223> OTHER INFORMATION: PS14: polymorphic base C or T 104 <220> FEATURE: 105 <221> NAME/KEY: allele 106 <222> LOCATION: (8354)..(8354) 107 <223> OTHER INFORMATION: PS15: polymorphic base A or G 109 <220> FEATURE: 110 <221> NAME/KEY: allele 111 <222> LOCATION: (8402)..(8402) 112 <223> OTHER INFORMATION: PS16: polymorphic base A or G 114 <220> FEATURE: 115 <221> NAME/KEY: allele 116 <222> LOCATION: (8459)..(8459) 117 <223> OTHER INFORMATION: PS17: polymorphic base A or C 119 <220> FEATURE:

120 <221> NAME/KEY: allele

121 <222> LOCATION: (10203)..(10203)

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02192002\J044674.raw

```
122 <223> OTHER INFORMATION: PS18: polymorphic base G or
    124 <220> FEATURE:
    125 <221> NAME/KEY: allele
    126 <222> LOCATION: (10512)..(10512)
    127 <223> OTHER INFORMATION: PS19: polymorphic base T or C
    129 <400> SEQUENCE: 1
    130 acagegaace etagageaaa gtgeeaaact tetgtegata gettgagget agtggaaaga
                                                                             60
    131 cctcqaqqag qctactccag aagttcagcg cgtaggaagc tccgatacca atagcccttt
                                                                            120
    132 gatgatggtg gggttggtga agggaacagt gctccgcaag gttatccctg ccccaggcag
                                                                            180
    133 tocaatttto actotgoaga ttotototgg ototaactac cocagataac aaggagtgaa
                                                                            240
    134 tqcaqaataq cacqqqcttt agqqccaatc agacattagt tagaaaaatt cctactacat
                                                                            300
    135 ggtttatgta aacttgaaga tgaatgattg cgaactcccc gaaaagggct cagacaatgc
                                                                            360
    136 catgcataaa gaggggccct gtaatttgag gtttcagaac ccgaagtgaa ggggtcaggc
                                                                            420
    137 agccgggtac ggcggaaact cacagettte gcccagegag aggacaaagg tetgggacae
                                                                            480
    138 actocaactg cgtccggatc ttgkctggat cggactctca gggtggagga gacacaagca
                                                                            540
    139 cagcagetge ccagcgtgtg eccagceete ecaccgetgg teccggetge caggaggetg
                                                                            600
    140 geogetggeg ggaaggggee gggaaacete agageeeege ggagacagea geogeettgt
                                                                            660
    141 tecteageec ggtggetttt tttteecetg eteteceagg ggacagacae caeegeyega
                                                                            720
                                                                            780
    142 cccctcacgc cccacctccc tggkggatcc tttccgcccc agccctgaaa gcgttaaycc
                                                                            840
    143 tqqaqettte tqcacacece eeqacegete eeqeceaage tteetaaaaa agaaaggtge
                                                                            900
    144 aaaqtttqqt ccaqqataqa aaaatqactg atcaaaggca ggcgatactt cctgttgccg
                                                                           960
    145 qqacqctata tataacqtqa tqaqcqcacq qqctqcqqaq acqcaccgga gcgctcgccc
                                                                          1020
    146 ageogeogee tecaageoee tgaggtttee ggggaccaca atgaacaast tgetgtgetg
                                                                           1080
    147 egegetegtg gtaagteest gggeyageeg aegggtgeec ggegeetggg gaggetgetg
                                                                          1140
    148 ccacctgqtc tcccaacctc ccagcggacc ggcggggaga argetccact cgctccctcc
    149 caggagagge ttgggggttag getggageag gaaaccgett teaagttatg ceatgettee
                                                                          1200
    150 cctagggtgt ccttttamgc tgcaaagttc ctgctgactt tatggaagac agcaagagag
                                                                          1260
    1320
    152 cattaacctt ctgtcttcat ctcagaatat taacgccctc atgtagtcca tactatcttt
                                                                          1380
    153 gcttaatgaa cttgaacttt tattattagt ggcaaagaag tggtccctta gattcagagt
                                                                          1440
    154 aagttggaag aagacgttag tottottaaa accattataa ttagaata,tg acatgataga
                                                                           1500
1560
    156 agtcaaatga tactgttgca cataagaaca aacctatttt catgctaaga tgatgccact
                                                                           1620
    157 gtgttccttt ctccttctag tttctggaca tctccattaa gtggaccacc caggaaacgt
                                                                          1680
    158 ttcctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg tgtgacaaat
                                                                           1740
    159 gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc gtgtgcgccc
                                                                           1800
    160 ettgeeetga eeactactae acagacaget ggeacaceag tgaegagtgt etataetgea
                                                                          1860
    161 gccccgtgtg caaggagctg cagtacgtca agcaggagtg caatcgcacc cacaaccgcg
                                                                          1920
                                                                          1980
    162 tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa cataggagct
    163 gccctcctgg atttggagtg gtgcaagctg gtaygtgtca atgtgcagca aaattaatta
                                                                           2040
    164 ggatcatgca aagtcagata gttgtgacag tttaggagaa cacttttgtt ctgatgacat
                                                                           2100
    165 tataggatag caaattgcaa aggtaatgaa acctgccagg taggtactat gtgtctggag
                                                                          2160
    166 tgcttccaaa ggaccaytgc tcagaggaat actttgccac tacagggcaa tttaatgaca
                                                                          2220
    167 aatctcaaat gcagcaaatt attctctcat gagatgcatg atggtttttt tttttttt
                                                                          2280
    168 taaagaaaca aactcaagtt gcactattga tagttgatct atacctctat atttcacttc
                                                                          2340
    169 agcatggaca ccttcaaact gcagcacttt ttgacaaaca tcagaaatgt taatttatac
                                                                          2400
    170 caagagagta attatgctca tattaatgag actctggagt gctaacaata agcagttata
                                                                          2460
    171 attaattatg taaaaaatga gaatggtgag gggaattgca tttcattatt aaaaacaagg
                                                                           2520
    172 ctagttcttc ctttagcatg ggagctgagt gtttgggagg gtaaggacta tagcagaatc
                                                                           2580
```

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02192002\J044674.raw

		gcttattctt					2640
174	ttgcctataa	accaagtgct	ttctcttttg	cattttgaac	agcattggtc	agggctcatg	2700
175	tgtattgaat	cttttaaacc	agtaacccac	gtttttttc	tgccacattt	gcgaagcttc	2760
		ataacttttc					2820
177	aagaagtaat	cagtatagat	tctgatgact	cagtttgaag	cagtgtttct	caactgaagc	2880
178	cctgctgata	ttttaagaaa	tatctggatt	cctaggctgg	actccttttt	gtgggcagct	2940
179	gtcctgcgca	ttgtagaatt	ttggcagcac	ccctggactc	tagccactag	ataccaatag	3000
180	cagtccttcc	cccatgtgac	agccaaaaat	gtcttcagac	actgtcaaat	gtcgccaggt	3060
181	ggcaaaatca	ctcctggttg	agaacagggt	catcaatgct	aagtatctgt	aactattta	3120
		cttgtgatat					3180
183	aaggcataca	aatgaaacat	tcaaaaatca	aaatctattc	tgtttctcaa	atagtgaatc	3240
		aatcacagaa					3300
		gagggaggaa					3360
186	actcaaaagc	taagctaagt	tgtgtgtgtg	tcagggtgcg	gggtgtggaa	tcccatcaga	3420
		tccatgtaat					3480
		tggaaactag					3540
189	aaataagtaa	gaaaatctgt	ttgtagaatg	aagcaagcag	gcagccagaa	gactcagaac	3600
190	aaaagtacac	attttactct	gtgtacactg	gcagcacagt	gggatttatt	tacctctccc	3660
		cccacacagc					3720
192	aggaaagact	atgtggtgtt	actctaaaaa	gtatttaata	accgttttgt	tgttgctgtt	3780
193	gctgttttga	aatcagattg	tctcctctcc	atattttatt	tacttcattc	tgttaattcc	3840
194	tgtggaatta	cttagagcaa	gcatggtgaa	ttctcaactg	taaagccaaa	tttctccatc	3900
		cacattttgc					3960
		attacttaga					4020
197	gggaagtcat	gttcatgttc	aggaaggtca	ttagataaag	cttctgaata	tattatgaaa	4080
198	cattagttct	gtcattctta	gattctttt	gttaaataac	tttaaaagct	aacttaccta	4140
		ctgacacata					4200
		tgaagaatga					4260
201	tctcaagagt	ttgagaggtc	aaggcgggca	gatcacctga	ggtcaggagt	tcaagaccag	4320
		atgatgaaac					4380
203	ggtgcatgcc	tgcaacccta	gctactcagg	aggctgagac	aggagaatct	cttgaaccct	4440
204	cgaggcggag	gttgtggtga	gctgagatcc	ctctactgca	ctccagcctg	ggtgacagag	4500
		gtccctgccg					4560
206	agaacatacg	gcagtcaaca	aagggagacc	tgggtccagg	tgtccaagtc	acttatttcg	4620
207	agtaaattag	caatgaaaga	atgccatgga	atccctgccc	aaatacctct	gcttatgata	4680
		tgatatagag					4740
		cacacaaca					4800
		tgctggaaat					4860
		ttttctgcca					4920
212	gagacaggag	atgaaactag	aaccagtcca	ttttgcccct	ttttttattt	tctggttttg	4980
		caatgaggta					5040
		tttctctttc					5100
		gatattgaag					5160
		gatacactgg					5220
217	aaggtattta	tttttaatag	cgtctttagt	tgtggactgg	ttcaagtttt	tctgccaatg	5280
		${\tt atttatcaaa}$					5340
		ttgaacgact					5400
220	ccgtttacta	tgtagcttaa	ctgcaggctt	acgcttttga	gtcagcggcc	aactttattg	5460
221	ccaccttcaa	aagtttatta	taatgttgta	aatttttact	tctcaaggtt	agcatactta	5520

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02192002\J044674.raw

222	ggagttgctt	cacaattagg	attcaggaaa	gaaagaactt	cagtaggaac	tgattggaat	5580
223	ttaatgatgc	agcattcaat	gggtactaat	ttcaaagaat	gatattacag	cagacacaca	5640
224	gcagttatct	tgattttcta	ggaataattg	tatgaagaat	atggctgaca	acacggcctt	5700
225	actgccactc	agcggaggct	ggactaatga	acaccctacc	cttctttcct	ttcctctcac	5760
226	atttcatgag	cgttttgtag	gtaacgagaa	aattgacttg	catttgcatt	acaaggagga	5820
227	gaaactggca	aaggggatga	tggtggaagt	tttgttctgt	ctaatgaagt	gaaaaatgaa	5880
228	aatgctagag	ttttgtgcaa	cataayagta	gcagtaaaaa	ccaagtgaaa	agtctttcca	5940
229	aaactgtgtt	aagagggcat	ctgctgggaa	acgatttgag	gagaaggtac	taaattgctt	6000
230	ggtattttcy	gtaggaaccc	cagagcgaaa	tacagtttgc	aaaagatgtc	cagatgggtt	6060
231	cttctcaaat	gagacgtcat	ctaaagcacc	ctgtagaaaa	cacacaaatt	gcagtgtctt	6120
232	tggtctcctg	ctaactcaga	aaggaaatgc	aacacacgac	aacatatgtt	ccggaaacag	6180
233	tgaatcaact	caaaaatgtg	gaataggtaa	ttacattcca	aaatacgtct	ttgtacgatt	6240
234	ttgtagtatc	atctctctct	ctgagttgaa	cacaaggcct	ccagccacat	tcttggtcaa	6300
235	acttacattt	tccctttctt	gaatcttaac	cagctaaggc	tactctcgat	gcattactgc	6360
236	taaagctacc	actcagaatc	tctcaaaaac	tcatcttctc	acagataaca	cctcaaagct	6420
237	tgattttctc	tcctttcaca	ctgaaatcaa	atcttgccca	taggcaaagg	gcagtgtcaa	6480
238	gtttgccact	gagatgaaat	taggagagtc	caaactgtag	aattcacgtt	gtgtgttatt	6540
239	actttcacga	atgtctgtat	tattaactaa	agtatatatt	ggcaactaag	aagcaaagtg	6600
240	atataaacat	gatgacaaat	taggccaggc	atggtggctt	actcctataa	tcccaacatt	6660
241	ttggggggcc	aaggtaggca	gatcacttga	ggtcaggatt	tcaagaccag	cctgaccaac	6720
242	atggtgaaac	cttgtctcta	ctaaaaatac	aaaaattagc	tgggcatggt	agcaggcact	6780
243	tctagtacca	gctactcagg	gctgaggcag	gagaatcgct	tgaacccagg	agatggaggt	6840
244	tgcagtgagc	tgagattgta	ccactgcact	ccagtctggg	caacagagca	agatttcatc	6900
245	acacacacac	acacacacac	acacacacac	attagaaatg	tgtacttggc	tttgttacct	6960
246	atggtattag	tgcatctatt	gcatggaact	tccaagctac	tctggttgtg	ttaagctctt	7020
247	cattgggtac	aggtcactag	tattaagttc	aggttattcg	gatgcattcc	acggtagtga	7080
248	tgacaattca	tcaggctagt	gtgtgtgttc	accttgtcac	tcccaccact	agactaatct	7140
249	cagaccttca	ctcaaagaca	cattacacta	aagatgattt	gcttttttgt	gtttaatcaa	7200
250	gcaatggtat	aaaccagctt	gactctcccc	aaacagtttt	tcgtactaca	aagaagttta	7260
251	tgaagcagag	aaatgtgaat	tgatatatat	atgagattct	aacccagttc	cagcattgtt	7320
252	tcattgtgta	attgaaatca	tagacaagcc	attttagcct	ttgctttctt	atctaaaaaa	7380
253	aaaaaaaaa	aaatgaagga	aggggtatta	aaaggagtga	tcaaatttta	acattctctt	7440
254	taattaattc	atttttaatt	ttacttttt	tcatttattg	tgcacttact	atgtggtact	7500
255	gtgctataga	ggctttaaca	tttataaaaa	cactgtgaaa	gttgcttcag	atgaatatag	7560
256	gtagtagaac	ggcagaacta	gtattcaaag	ccaggtctga	tgaatccaaa	aacaaacacc	7620
257	cattactccc	attttctggg	acatacttac	tctacccaga	tgctctgggc	tttgtaatgc	7680
258	ctatgtaaat	aacatagttt	tatgtttggt	tattttccta	tgtaatgtct	acttatatat	7740
259	ctgtatctat	ctcttgcttt	gtttccaaag	gtaaactatg	tgtctaaatg	tgggcaaaaa	7800
260	ataacacact	attccaaatt	actgttcaaa	ttcctttaag	tcagtgataa	ttatttgttt	7860
261	tgacattaat	catgaagttc	cctgtgggta	ctaggtaaac	ctttaataga	atgttaatgt	7920
262	ttgtattcat	tataagaatt	tttggctgtt	acttatttac	aacaatattt	cactctaatt	7980
263	agacatttac	taaactttct	cttgaaaaca	atgcccaaaa	aagaacatta	gaagacacgt	8040
264	aagctcagtţ	ggtctctgcc	actaagacca	gccaacagaa	gcttgatttt	attcaaactt	8100
265	tgcattttar	catattttat	cttggaaaat	tcaattgtgt	tggttttttg	tttttgtttg	8160
266	tattgaatag	actctcagaa	atccaattgt	tgagtaaatc	ttctgggttt	tctaaccttt	8220
267	ctttagatgt	taccctgtgt	gaggaggcat	tcttcaggtt	tgctgttcct	acaaagttta	8280
268	cgcctaactg	gcttagtgtc	ttggtagaca	atttgcctgg	caccaaagta	aaygcagaga	8340
269	gtgtagagag	gatraaacgg	caacacagct	cacaagaaca	gactttccag	ctgctgaagt	8400
270	trtggaaaca	tcaaaacaaa	gaccaagata	tagtcaagaa	gatcatccaa	ggtatgatma	8460

The of the Maryon has been detected in the Requence Listing.

Review the Sequence Listing to incure a corresponding medianation is presented in the <220> to <225> fields of each sequence using n or Xaa.

80 0 01 .

## VERIFICATION SUMMARY PATENT APPLICATION: US/10/044,674 DATE: 02/19/2002 TIME: 17:10:29

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02192002\J044674.raw

```
L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:155 M:112 C: (48) String data converted to lower case,
L:1370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:1406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
```